BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : A) CONSTRUCTION OF CLASSROOMS AND PROVIDING BASIC AMENITIES TO YELAHANKA GOVT FIRST GRADE COLLEGE IN YELAHANKA DIVISION

PRE-MEASUREMENT

2nd AND PART BILL

Pre-Measurements Recorded On:

Sl. NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
Item No. 02	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications and directions of the Engineer in charge. Specification No. KBS 2.10.2 (Page no-7, Item No-2.15 of PWD SR 2018-19.).								
	RA BILL -1								
	Measurements taken on								
	Footings							29.02	
	RA BILL -2								
	Measurements taken on								
	stages								
	Stage in class rooms(Fisrt floor)		4	2	3.7	1.20	0.21	7.28	
	Stage in class rooms(Second floor)		4	2	3.7	1.20	0.21	7.28	
	Stage in class rooms(Third floor)		4	2	3.7	1.20	0.21	7.28	
	Existing building								
	Stage in class rooms		7	2	3.7	1.20	0.21	12.74	
							Total qty	**63.61**	
							Previous qty	29.02	
							Qty to be Paid	**34.59**	**Cum**

DSR INFRATECH
Date.....

For,

CONTRACTOR

PMC

ASSISTANT ENGINEER 9/5/2021

ASSISTANT EXECUTIVE ENGINEER

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2nd AND PART BILL

Pre-Measurements Recorded On: 23-03-21 to 09-05-21

Sl. NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
Item No. 04	Providing and laying in position plain cement concrete of mix (M15) with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work . ---- All terms and conditions are as per Tender Document. Specification No. KBS 4.1, 4.2 (Page no-13, Item No-4.6 of PWD SR 2018-19.)..									
	RA BILL -1								
	Qty Paid in RA Bill-1							7.21	
	RA BILL -2								
	Measurements taken on								
	Coping Above SSM							7.21	
	stage								
	Stage in class rooms(Fisrt floor)		4	2	3.7	1.20	0.21	7.28	
	Stage in class rooms(Second floor)		4	2	3.7	1.20	0.21	7.28	
	Stage in class rooms(Third floor)		4	2	3.7	1.20	0.21	7.28	
	Existing building								
	Stage in class rooms		7	2	3.7	1.20	0.21	12.74	
							Total qty	**41.80**	
							Previous qty	7.21	
							Qty to be Paid	**34.59**	**Cum**

DSR INFRATECH BENGALURU Date

CONTRACTOR

for, PMC

ASSISTANT ENGINEER
9/5/21

ASSISTANT EXECUTIVE ENGINEER
9/5/2021

Asst. Executive Engineer
Project Division

Scanned by TapScanner

2nd AND PART BILL

Pre-Measurements Recorded On:

Sl. NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
Item No. 28	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (Pg No.18 Item No.4.46.2 PWD SR 2018-19) (Ground Floor)								
	RA BILL1								
	Measurements taken on								
	Ground Floor and Below								
	Footings	Tonne						10.30	
	Plinth Beam	Tonne						2.33	
	Column upto Plinth top	Tonne						0.86	
	Columns @ GF	Tonne						2.46	
	Roof Beam @ GF	Tonne						5.92	
	Roof Slab @ GF	Tonne						5.45	
	Stair Case @ GF	Tonne						0.90	
	RA BILL-2								
	Chejja@ GF	Tonne						0.25	
	Lintel@ GF	Tonne						0.89	
						Total Qty		**29.36**	
						Qty Paid in RA Bill-I		28.23	
						Qty to be Paid		**1.13**	**Tonne**

A.E.E. (Project)

DSR INFRATECH BENGALURU Date.....

CONTRACTOR

PMC

ASSISTANT ENGINEER
22/2/21

ASSISTANT EXECUTIVE ENGINEER
Asst. Executive Engineer
Project 22/2/2021

Scanned by TapScanner

2nd AND PART BILL

Pre-Measurements Recorded On:

Sl. NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
Item No. 29	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (Pg No.18 Item No.4.46.2 PWD SR 2018-19) (First Floor)								
	Measurements taken on								
	First Floor								
	Columns @ 1st Floor	Tonne						2.46	
	Roof Beam @ 1st Floor	Tonne						5.92	
	Roof Slab @ 1st Floor	Tonne						5.45	
	Stair Case @ 1st Floor	Tonne						0.97	
	Chejja@ 1st Floor	Tonne						0.25	
	Lintel@ 1st Floor	Tonne						0.76	
						Total Qty		15.81	
						Qty Paid in RA Bill-I		14.80	
						Qty to be Paid		**1.00**	**Tonne**

A.E.E. (Project)

DSR INFRATECH BENGALURU Date.....

CONTRACTOR

PMC

ASSISTANT ENGINEER
30/4/21

ASSISTANT EXECUTIVE ENGINEER
Asst. Executive Engineer
Project Division
30/4/2021

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2nd AND PART BILL

Pre-Measurements Recorded On:

Sl. NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
Item No. 30	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.and directions of the Engineer in charge.(Second Floor)								
	Measurements taken on								
	Second Floor								
	Columns @ 2nd Floor	Tonne						2.46	
	Roof Beam @ 2nd Floor	Tonne						5.92	
	Roof Slab @ 2nd Floor	Tonne						5.45	
	Stair Case @ 2nd Floor	Tonne						0.97	
	Chejja@ 2nd Floor	Tonne						0.25	
	Lintel@ 2nd Floor	Tonne						0.76	
						Total Qty		**15.81**	**Tonne**
						Qty Paid in RA Bill-I		14.80	**Tonne**
						Qty to be Paid		**1.00**	**Tonne**

DSR INFRATECH BENGALURU Date.....

CONTRACTOR

PMC

ASSISTANT ENGINEER
6/5/21

ASSISTANT EXECUTIVE ENGINEER
Asst. Executive Engineer
Project Division

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2nd AND PART BILL

Pre-Measurements Recorded On:

Sl. NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
Item No. 31	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.and directions of the Engineer in charge.(Third Floor)								
	RA BILL -2								
	Measurements taken on								
	Third Floor								
	Columns @ 3rd Floor	Tonne						2.46	
	Roof Beam @ 3rd Floor	Tonne						5.92	
	Roof Slab @ 3rd Floor	Tonne						5.45	
	Stair Case @ 3rdd Floor	Tonne						0.97	
	Chajja @ 3rd Floor	Tonne						0.25	
	Lintel@ 3rd Floor	Tonne						0.76	
	Existing building								
	Columns @ 3rd Floor	Tonne						3.20	
						Qty to be Paid		**19.01**	**Tonne**

DSR INFRATECH BENGALURU Date.....

CONTRACTOR

PMC

ASSISTANT ENGINEER

13/5/21

ASSISTANT EXECUTIVE ENGINEER

Asst. Executive Engineer
Project Division

13/5/21

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2nd AND PART BILL

Pre-Measurements Recorded On:

Sl. NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
Item No. 32	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.and directions of the Engineer in charge.(Head room))								
	RA BILL 2								
	Measurements taken on								
	Head Room								
	Columns @ Head room	Tonne						0.57	
	Roof Beam @ Head room	Tonne						1.05	
	Roof Slab @ Head room	Tonne						0.61	
						Qty to be Paid		**2.23**	**Tonne**

DSR INFRATECH BENGALURU Date.....

CONTRACTOR PMC ASSISTANT ENGINEER 4/5/21 ASSISTANT EXECUTIVE ENGINEER

Asst. Executive Engineer 4/5/2021 Project Division

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2nd AND PART BILL

Pre-Measurements Recorded On:

Sl. NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
EIRL - 01	KSRB 2.5 : Earthwork excavation (in deposited soil) and filling sides of foundation upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications. specification. No. KBS 2.9.9 / 2.9.10.1 / 2.1.1 ---- etc.,complete with all lead & lift and as per the instructions and directions of the Engineer-In-Charge of the work. (Page no-7, Item No-2.12 of PWD SR 2018-19.)..								
	Measurements taken on								
	RA BILL -1								
	Previous qty	Cum						230.02	
	RA BILL -2								
	infront of existing building	Cum	1	1	17.00	15.00	0.90	229.50	
		Cum	1	1	9.50	11.50	0.90	98.33	
		Cum	1	1	9.5	19.60	0.90	167.58	
		Cum	1	1	4	4.00	0.90	14.40	
						Total Qty		739.83	
					previous qty			230.02	
						Qty to be Paid		**509.81**	**Cum**

DSR IN... Date.....

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

Asst. Executive Engineer
Project Division

Scanned by TapScanner

2nd AND PART BILL

Detailed Measurements Of Reinforcement

Pre Measurements Recorded On:

Sl. No		Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
			L	B	H			L	Spacing	L	Spacing									
		Third Floor Details																		
I		**Column Reinforcement**																		
	A	**Columns @ Second Floor**																		
	a	C1	0.75	0.30	3.65	2														
		Main Bars				2	25					18	3.65	131.40						131.40
		Stirrups / Lateral ties				2	8			3.05	0.25	13	2.00	52.00	52.00					
						2	8			3.05	0.25	13	1.35	35.10	35.10					
	b	C1'	0.75	0.30	3.65	2														
		Main Bars				2	25					18	3.65	131.40						131.40
		Stirrups / Lateral ties				2	8			3.05	0.25	13	2.00	52.00	52.00					
						2	8			3.05	0.25	13	1.35	35.10	35.10					
	c	C2	0.75	0.30	3.65	2														
		Main Bars				2	25					10	3.65	73.00						73.00
		Stirrups / Lateral ties				2	8			3.05	0.25	13	2.00	52.00	52.00					
						2	8			3.05	0.25	13	1.35	35.10	35.10					
	d	C2'	0.75	0.30	3.65	2														
		Main Bars				2	25					10	3.65	73.00						73.00
		Stirrups / Lateral ties				2	8			3.05	0.25	13	2.00	52.00	52.00					
						2	8			3.05	0.25	13	1.35	35.10	35.10					
	e	C3	0.75	0.30	3.65	4														
		Main Bars				4	25					4	3.65	58.40						58.40
						4	20					4	3.65	58.40					58.40	
		Stirrups / Lateral ties				4	8			3.05	0.25	13	2.00	104.00	104.00					
						4	8			3.05	0.25	13	1.35	70.20	70.20					
	f	C4	0.75	0.30	3.65	4														
		Main Bars				4	20					4	3.65	58.40					58.40	
						4	16					4	3.65	58.40				58.40		
		Stirrups / Lateral ties				4	8			3.05	0.25	13	2.00	104.00	104.00					
						4	8			3.05	0.25	13	1.35	70.20	70.20					
															696.80			58.40	116.80	467.20
															0.395	0.617	0.889	1.580	2.469	3.858
															275.28			92.29	288.40	1802.47
														Total kgs	2458.43					
														Total in kg	2458.43					
														Total tonne	2.46	TONNE				
		Existing Building Details																		
		Column Reinforcement																		
g		C1	0.45	0.23	4.57	17														
		Main Bars				17	20					4	4.57	310.98					310.98	

A.E.E. (Project)

Contractor

PMC

DSR INFRATECH Date..... BENGALURU

Assistant Engineer

Assistant Exicutive Engineer

Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

Scanned by TapScanner

2nd AND PART BILL

Detailed Measurements Of Reinforcement

Pre Measurements Recorded On:

Sl. No	Member details	size in meter L	B	H	No of elements	Dia of bar	Main Bars calc L	Spacing	Distribution bars calc L	Spacing	No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
	Stirrups / Lateral ties				17	16					4	4.57	310.98						
					17	8			4.57	0.25	19	2.00	646.00	646.00			310.98		
					17	8			4.57	0.25	19	1.35	436.05	436.05					
h	C1	0.45	0.23	4.12	17														
	Main Bars				17	20					4	4.12	279.88						
	Stirrups / Lateral ties				17	16					4	4.12	279.88					279.88	
					17	8			4.12	0.25	17	2.00	578.00	578.00			279.88		
					17	8			4.12	0.25	17	1.35	390.15	390.15					
														2050.20			590.85	590.88	
														0.395	0.617	0.889	1.580	2.469	3.858
														809.96			933.89	1458.96	
												Total kgs		3202.55					
												Total in kg		3202.55					
												Total tonne		3.20	TONNE				
II	**Roof Beam Reinforcement**																		
A	**Third Floor**																		
	B1 Along Grid A & D'	18.00	0.30	0.60	2														
	Bottom Main Bar				2	25					4	17.95	143.60						143.60
	Top Main Bar				2	25					3	18.75	112.50						112.50
	Bottom Extra Bar bw Grid 1&2				2	25					1	4.43	8.85						8.85
	Bottom Extra Bar bw Grid 2&3				2	25					1	4.65	9.30						9.30
	Bottom Extra Bar bw Grid 3&4				2	25					1	3.30	6.60						6.60
	Top Extra Bar @ Grid 2				2	25					4	3.90	31.20						31.20
	Top Extra Bar @ Grid 3				2	25					3	3.50	21.00						21.00
	Stirrups																		
	Between Grid 1 & 3				2	10			11.73	0.15	79	1.70	268.60		268.60				
	Between Grid 3 & 4				2	10			3.95	0.3	14	1.70	47.60		47.60				
	B2 Along Grid B & C	18.00	0.30	0.60	2														
	Bottom Main Bar				2	25					4	17.95	143.60						143.60
	Top Main Bar				2	25					3	18.75	112.50						112.50
	Bottom Extra Bar bw Grid 1&2				2	25					2	4.43	17.70						17.70
	Bottom Extra Bar bw Grid 2&3				2	25					2	4.65	18.60						18.60

Contractor

for PMC

DSR INFRATECH Date..... BEN...ALL

Assistant Engineer

A.E.E. (Project)

Assistant Executive Engineer

Executive Engineer

Asst. Executive Engineer
Project Division
Mahabaleshwar Zone

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2nd AND PART BILL

Detailed Measurements Of Reinforcement

Pre Measurements Recorded On:

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	Bottom Extra Bar bw Grid 3&4				2	25					2	3.30	13.20						13.20
	Top Extra Bar @ Grid 2				2	25					4	3.90	31.20						31.20
	Top Extra Bar @ Grid 3				2	25					3	3.50	21.00						21.00
	Stirrups																		
	Between Grid 1 & 4				2	10			15.98	0.1	161	1.70	547.40		547.40				
	B3 Along Grid 1	17.00	0.30	0.60	1														
	Bottom Main Bar				1	25					3	16.95	50.85						50.85
	Top Main Bar				1	25					3	17.75	53.25						53.25
	Bottom Extra Bar bw Grid A&B				1	25					2	4.38	8.75						8.75
	Bottom Extra Bar bw Grid C&D				1	25					2	4.38	8.75						8.75
	Top Extra Bar				1	25					4	7.60	30.40						30.40
	Stirrups																		
	Between Grid A & D				1	10			14.00	0.15	94	1.70	159.80		159.80				
	B4 Along Grid 2	6.70	0.30	0.60	2														
	Bottom Main Bar				2	25					5	6.65	66.50						66.50
	Top Main Bar				2	25					4	7.45	59.60						59.60
	Bottom Extra Bar				2	25					3	4.50	27.00						27.00
	Stirrups																		
	Between Grid A- B & C-D'				2	10			11.45	0.15	77	1.70	261.80		261.80				
	B4 Along Grid 3	6.70	0.30	0.60	2														
	Bottom Main Bar				2	25					5	6.65	66.50						66.50
	Top Main Bar				2	25					4	7.45	59.60						59.60
	Bottom Extra Bar				2	25					3	4.50	27.00						27.00
	Stirrups																		
	Between Grid A- B & C-D'				2	10			11.45	0.15	77	1.70	261.80		261.80				
	B5 Along Grid 3	4.20	0.30	0.60	1														
	Bottom Main Bar				1	25					3	4.15	12.45						12.45
	Top Main Bar				1	20					2	4.95	9.90					9.90	
	Stirrups																		
	Between Grid B & C				1	10			3.60	0.15	25	1.70	42.50		42.50				
	B6 Along Grid 4	6.70	0.30	0.60	2														
	Bottom Main Bar				2	25					5	6.65	66.50						66.50
	Top Main Bar				2	20					2	7.45	29.80					29.80	
	Stirrups																		

A.E.E. (Project)

Contractor

PMC

DSR INFRATECH Date.....

Assistant Engineer

Assistant Exicutive Engineer

Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

Scanned by TapScanner

2nd AND PART BILL

Detailed Measurements Of Reinforcement

Pre Measurements Recorded On:

Sl. No		Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
			L	B	H			L	Spacing	L	Spacing									
		Between Grid A- B & C-D'				2	8			11.45	0.15	77	1.70	261.80	261.80					
															261.80	1589.50			39.70	1228.09
															0.395	0.617	0.889	1.580	2.469	3.858
															103.43	981.17			98.02	4737.55
														Total kgs	5920.28					
														Total in kg	5920.28					
														Total tonne	5.92	TONNE				
III		Roof Slab Reinforcement																		
	A	Third Floor																		
	a	Between Grid 1-4 & A-B	18.00	6.55																
		Main Bar - a1				1	12	17.95	0.13			139	6.50	903.50			903.50			
		Longitudinal Bar - a1				1	12			6.50	0.13	51	17.95	915.45			915.45			
		Top Extra Above Beam B4 - a3				2	16	6.4	0.26			26	3.90	202.80				202.80		
	b	Between Grid 1-3 & B-C	12.85	3.90																
		Main Bar - a1				1	12	12.80	0.13			99	3.85	381.15			381.15			
		deduct at Cutout	9.09	0.60		-1	12	9.09	0.13			71	0.60	-42.60			-42.60			
		Longitudinal Bar - a5				1	10			3.85	0.25	16	12.80	204.80		204.80				
		Top Extra @ B2 along Grid B - a3	1.70	3.90		1	16	1.70	0.26			8	3.05	24.40				24.40		
		Top Extra @ B2 along Grid C - a1	1.70	3.90		1	12	1.70	0.13			14	3.05	42.70			42.70			
		Top Extra near Cut out @B2 Along grid B - a2	9.09	3.90		1	16	9.09	0.1			92	3.65	335.80				335.80		
		Top Extra near Cut out @B2 Along grid C - a2	9.09	3.90		1	16	9.09	0.1			92	3.75	345.00				345.00		
	c	Between Grid 1-4 & C-D'	18.00	6.55																
		Main Bar - a1				1	12	17.95	0.13			139	6.50	903.50			903.50			
		Longitudinal Bar - a1				1	12			6.50	0.13	51	17.95	915.45			915.45			
		Top Extra Above Beam B4 - a3				2	16	6.4	0.26			26	3.90	202.80				202.80		
																204.80	4019.15	1110.80		
															0.395	0.617	0.889	1.580	2.469	3.858
																126.42	3572.58	1755.34		

Contractor PMC Assistant Engineer Assistant Executive Engineer Executive Engineer

DSR INFRAECH BENGALURU Date.....

Assl. Executive Engineer Project Division

Scanned by TapScanner

2nd AND PART BILL

Detailed Measurements Of Reinforcement

Pre Measurements Recorded On:

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
													Total kgs	5454.34					
													Total in kg	5454.34					
													Total tonne	5.45	TONNE				
IV	Stair Case Reinforcement																		
A	Third Floor																		
a	First Flight																		
	From FF Roof Landing to Mid landing Slab	3.96	1.50																
	Main Bar				1	16	1.50	0.13			13	5.66	73.58				73.58		
	Distribution Bar				1	10			5.66	0.2	29	1.45	42.05		42.05				
	Top Extra Bar				1	16	1.50	0.13			13	2.40	31.20				31.20		
	Distribution Bar				1	10			1.00	0.2	6	1.45	8.70		8.70				
	Top Extra Bar @ Mid landing				1	16	1.50	0.13			13	3.30	42.90				42.90		
	Top Extra Bar @ Roof landing				1	16	1.50	0.13			13	2.40	31.20				31.20		
	Landing Slab	3.90	1.80																
	Top Main Bar				1	16	3.9	0.13			31	1.55	48.05				48.05		
	Distribution Bar				1	16	1.6	0.13			13	3.90	50.70				50.70		
	Bottom Main Bar				1	16	3.9	0.13			31	1.55	48.05				48.05		
	Distribution Bar				1	16	1.6	0.13			13	3.90	50.70				50.70		
	Landing Beam	3.90	0.20																
	Bottom main bar				1	25	3.9				3	3.90	11.70						11.70
	Top main bar				1	20	3.9				2	4.70	9.40					9.40	
	Stirrups				1	8			3.9	0.15	27	1.50	40.50	40.50					
b	Second Flight																		
	From Midlanding to 1st Floor Roof Landing	3.96	1.50																
	Main Bar				1	16	1.50	0.13			13	5.66	73.58				73.58		
	Distribution Bar				1	10			5.66	0.2	29	1.45	42.05		42.05				
	Top Extra Bar @ Mid landing				1	16	1.50	0.13			13	3.30	42.90				42.90		
	Top Extra Bar @ Roof landing				1	16	1.50	0.13			13	2.40	31.20				31.20		
														40.50	92.80		524.06	9.40	11.70
														0.396	0.617	0.889	1.580	2.469	3.858
														16.00	57.28		828.15	23.21	45.14
													Total kgs	969.78					
													Total in kg	969.78					
													Total tonne	0.97	TONNE				

Head room Details

Contractor

PWE

Assistant Engineer

Assistant Executive Engineer

Executive Engineer

Asst. Executive Engineer
Project Division

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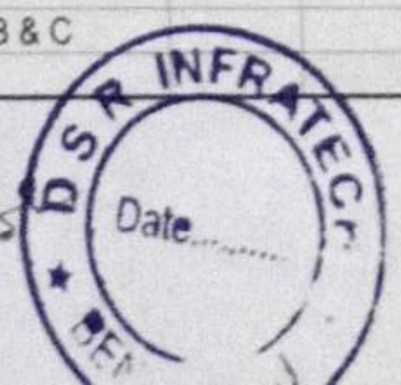
2nd AND PART BILL

Detailed Measurements Of Reinforcement

Pre Measurements Recorded On:

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
I	Column Reinforcement																		
b	C1'	0.75	0.30	2.74	2														
	Main Bars				2	25					16	2.74	98.64						98.64
	Stirrups / Lateral ties				2	8			2.14	0.25	10	2.00	40.00	40.00					
					2	8			2.14	0.25	10	1.35	27.00	27.00					
e	C3	0.75	0.30	2.74	2														
	Main Bars				2	25					4	2.74	21.92						21.92
					2	20					4	2.74	21.92					21.92	
	Stirrups / Lateral ties				2	8			2.14	0.25	10	2.00	40.00	40.00					
					2	8			2.14	0.25	10	1.35	27.00	27.00					
														134.00				21.92	120.56
														0.395	0.617	0.889	1.580	2.469	3.458
														52.94				54.12	465.12
												Total kgs		572.19					
												Total in kg		572.19					
												Total tonne		0.57	TONNE				
II	Roof Beam Reinforcement																		
A	Head room Details																		
	B2 Along Grid B & C	3.95	0.30	0.60	2														
	Bottom Main Bar				2	25					4	3.90	31.20						31.20
	Top Main Bar				2	25					3	4.70	28.20						28.20
	Bottom Extra Bar bw Grid 1&2				2	25					2	4.43	17.70						17.70
	Bottom Extra Bar bw Grid 2&3				2	25					2	4.65	18.60						18.60
	Bottom Extra Bar bw Grid 3&4				2	25					2	3.30	13.20						13.20
	Top Extra Bar @ Grid 2				2	25					4	3.90	31.20						31.20
	Top Extra Bar @ Grid 3				2	25					3	3.50	21.00						21.00
	Stirrups																		
	Between Grid 1 & 4				2	10			15.98	0.1	161	1.70	547.40		547.40				
	B5 Along Grid 3	3.60	0.30	0.60	1														
	Bottom Main Bar				1	25					3	3.55	10.65						10.65
	Top Main Bar				1	20					2	4.35	8.70					8.70	
	Stirrups																		
	Between Grid B & C				1	10			3.60	0.15	25	1.70	42.50		42.50				

Contractor PMC



Assistant Engineer

Assistant Executive Engineer Executive Engineer

Asst. Executive Engineer
Project Division

Scanned by TapScanner

2nd AND PART BILL

Detailed Measurements Of Reinforcement

Pre Measurements Recorded On:

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
															569.90			8.70	171.75
														0.395	0.617	0.889	1.580	2.466	3.855
															364.14			21.48	662.62
													Total kgs	1048.23					
													Total in kg	1048.23					
													Total tonne	1.05	TONNE				
III	Roof Slab Reinforcement																		
A	Head room Details																		
a	Between Grid 3-4 & C-B	5.90	3.50																
	Main Bar - a1				1	12	5.85	0.13			46	3.45	158.70			158.70			
	Longitudinal Bar - a1				1	12			3.45	0.13	28	5.85	163.80			163.80			
	Top Extra Above Beam B4 - a3				2	16	6.4	0.26			26	3.90	202.80				202.80		
																322.55	202.80		
														0.395	0.617	0.889	1.580	2.466	3.855
																286.67	320.47		
													Total kgs	607.14					
													Total in kg	607.14					
													Total tonne	0.61	TONNE				

RA BILL 2 - PART

	Chajja Reinforcement													
I	Ground Floor													
	Chajja													
	Door (D)	0.80	2.50	0.075										
	Main Bar				1	8	0.8	0.13			8	1.254	7.754	7.754
	Distribution Bar				1	8	2.5	0.2			14	2.46	34.44	34.44
	Window (W1)	0.80	2.10	0.075										
	Main Bar				14	8	0.8	0.13			8	1.254	108.696	108.696
	Distribution Bar				14	8	2.10	0.2			12	2.06	346.08	346.08
	Ventilator (V)		1.05	0.075										
	Main Bar				9	8	0.8	0.13			8	1.254	65.675	65.675

Contractor PMC Assistant Engineer Executive Engineer

DSR INFRA BIRCH Date

Asst. Executive Engineer

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2nd AND PART BILL

Detailed Measurements Of Reinforcement

Pre Measurements Recorded On:

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	Distribution Bar				9	8	1.05	0.2			6	1.01	54.54	54.54					
														621.40					
														0.395	0.617	0.889	1.580	2.469	3.858
														245.49					
													Total kgs	245.49					
													Total in kg	245.49					
													Total tonne	0.25	TONNE				
II	**First Floor**																		
	Chajja																		
	Window (W1)	0.60	2.10	0.075															
	Main Bar				18	8	0.6	0.13			6	1.294	139.752	139.752					
	Distribution Bar				18	8	2.10	0.2			12	2.06	444.96	444.96					
	Window (W1)	0.60	1.50	0.075															
	Main Bar				2	8	0.6	0.13			6	1.294	15.528	15.528					
	Distribution Bar				2	8	1.50	0.2			9	1.46	26.28	26.28					
														626.52					
														0.395	0.617	0.889	1.580	2.469	3.858
														247.51					
													Total kgs	247.51					
													Total in kg	247.51					
													Total tonne	0.25	TONNE				
III	**Second Floor**																		
	Chajja																		
	Window (W1)	0.60	2.10	0.075															
	Main Bar				18	8	0.6	0.13			6	1.294	139.752	139.752					
	Distribution Bar				18	8	2.10	0.2			12	2.06	444.96	444.96					
	Window (W1)	0.60	1.50	0.075															
	Main Bar				2	8	0.6	0.13			6	1.294	15.528	15.528					
	Distribution Bar				2	8	1.50	0.2			9	1.46	26.28	26.28					
														626.52					
														0.395	0.617	0.889	1.580	2.469	3.858
														247.51					
													Total kgs	247.51					
													Total in kg	247.51					
													Total tonne	0.25	TONNE				
IV	**Third Floor**																		

Contractor

PMC

DSR INFRA ... ENGG. Date.....

Assistant Engineer

Assistant Exicutive Engineer

Executive Engineer

Asst. Executive Engineer

Scanned by TapScanner

2nd AND PART BILL

Detailed Measurements Of Reinforcement

Pre Measurements Recorded On:

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	Chajja																		
	Window (W1)	0.60	2.10	0.075															
	Main Bar				18	8	0.6	0.13			6	1.294	139.752	139.752					
	Distribution Bar				18	8	2.10	0.2			12	2.06	444.96	444.96					
	Window (W1)	0.60	1.50	0.075															
	Main Bar				2	8	0.6	0.13			6	1.294	15.528	15.528					
	Distribution Bar				2	8	1.50	0.2			9	1.46	26.28	26.28					
														626.52					
														0.395	0.617	0.888	1.580	2.466	3.550
														247.51					
													Total kgs	247.51					
													Total in kg	247.51					
	Existing College building																		
I	Third Floor												Total tonne	0.25	TONNE				
	Chajja																		
	Window (W1)	0.60	2.10	0.075															
	Main Bar				15	10	0.6	0.13			6	1.294	116.46		116.46				
	Distribution Bar				15	8	2.10	0.2			12	2.06	370.8	370.8					
														370.80	116.46				
														0.395	0.617	0.888	1.580	2.466	3.550
														146.49	71.89				
													Total kgs	218.38					
													Total in kg	218.38					
													Total tonne	0.22	TONNE				
	Lintel reinforcement																		
I	Ground Floor																		
	Lintel Beam																		
	GROUND FIOOR																		
	Between grid 2 and 3																		
	B/W grid C and D		0.20	0.10	0.15														

Contractor PMC Assistant Engineer Assistant Executive Engineer Executive Engineer

DSR INFRA ... BENGALURU Date.....

Asst. Executive Engineer
Project Division

Scanned by TapScanner

2nd AND PART BILL

Detailed Measurements Of Reinforcement

Pre Measurements Recorded On:

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	Top Main Bar				4	8	1.20				2	1.15	9.20	9.20					
	Bottom Main Bar				4	8	1.20				2	1.15	9.20	9.20					
	Stirrups				4	8	1.20	0.15			9	0.43	15.41	15.41					
	Between grid 3 and 4																		
	B/W grid C and D	1.20	0.10	0.15	4	8													
	Top Main Bar				4	8	1.20				2	1.15	9.20	9.20					
	Bottom Main Bar				4	8	1.20				2	1.15	9.20	9.20					
	Stirrups				4	8	1.20	0.15			9	0.43	15.41	15.41					
	B/W grid C and D	1.20	0.10	0.15	4	8													
	Top Main Bar				4	8	1.20				2	1.15	9.20	9.20					
	Bottom Main Bar				4	8	1.20				2	1.15	9.20	9.20					
	Stirrups				4	8	1.20	0.15			9	0.43	15.41	15.41					
	Between grid C and D																		
	B/W grid 2 and 3	1.30	0.10	0.15															
	Top Main Bar				4	8	1.30				2	1.25	10.00	10.00					
	Bottom Main Bar				4	8	1.30				2	1.25	10.00	10.00					
	Stirrups				4	8	1.30	0.15			10	0.43	17.12	17.12					
	Between grid C and D																		
	B/W grid 3 and 4	1.30	0.10	0.15	4	8													
	Top Main Bar				4	8	1.30				2	1.25	10.00	10.00					
	Bottom Main Bar				4	8	1.30				2	1.25	10.00	10.00					
	Stirrups				4	8	1.30	0.15			10	0.43	17.12	17.12					
	B/W grid 3 and 4	1.30	0.10	0.15	4	8													
	Top Main Bar				4	8	1.30				2	1.25	10.00	10.00					
	Bottom Main Bar				4	8	1.30				2	1.25	10.00	10.00					
	Stirrups				4	8	1.30	0.15			10	0.43	17.12	17.12					
	ALONG GRID A																		
	B/W grid 2 and 3	5.80	0.20	0.30															
	Top Main Bar				1	16	5.80				2	5.75	11.50				11.50		
	Bottom Main Bar				1	16	5.80				3	5.75	17.25				17.25		
	Stirrups				1	8	5.80	0.15			40	0.93	37.12	37.12					
	B/W grid 3 and 4	3.95	0.20	0.30															
	Top Main Bar				1	16	3.95				2	3.90	7.80				7.80		
	Bottom Main Bar				1	16	3.95				3	3.90	11.70				11.70		
	Stirrups				1	8	3.95	0.15			27	0.93	25.06	25.06					
	ALONG GRID D																		
	B/W grid 2 and 3	5.80	0.20	0.30															
	Top Main Bar				1	16	5.80				2	5.75	11.50				11.50		
	Bottom Main Bar				1	16	5.80				3	5.75	17.25				17.25		
	Stirrups				1	8	5.80	0.15			40	0.93	37.12	37.12					
	B/W grid 3 and 4	3.95	0.20	0.30															

Contractor PMC Assistant Engineer Assistant Executive Engineer Executive Engineer

Asst. Executive Engineer
Project Division

Scanned by TapScanner

2nd AND PART BILL

Detailed Measurements Of Reinforcement

Pre Measurements Recorded On:

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	Top Main Bar																		
	Bottom Main Bar				1	16	3.95				2	3.90	7.80				7.80		
	Stirrups				1	16	3.95				3	3.90	11.70				11.70		
	Between grid 1 and 2	5.70	0.20	0.30	1	8	3.95	0.15			27	0.93	25.06	25.06					
	Top Main Bar																		
	Bottom Main Bar				1	16	5.70				2	5.65	11.30				11.30		
	Stirrups				1	16	5.70				3	5.65	16.95				16.95		
	ALONG GRID 1				4	8	5.70	0.15			39	0.93	144.77	144.77					
	B/W grid A and B	5.88	0.20	0.30															
	Top Main Bar																		
	Bottom Main Bar				1	16	5.88				2	5.83	11.65				11.65		
	Stirrups				1	16	5.88				3	5.83	17.48				17.48		
	B/W grid B and C	3.60	0.20	0.30	1	8	5.88	0.15			40	0.93	37.12	37.12					
	Top Main Bar																		
	Bottom Main Bar				1	16	3.60				2	3.55	7.10				7.10		
	Stirrups				1	16	3.60				3	3.55	10.65				10.65		
	B/W grid C and D	5.88	0.20	0.30	1	8	3.60	0.15			25	0.93	23.20	23.20					
	Top Main Bar																		
	Bottom Main Bar				1	16	5.88				2	5.83	11.65				11.65		
	Stirrups				1	16	5.88				3	5.83	17.48				17.48		
	ALONG GRID 2				1	8	5.88	0.15			40	0.93	37.12	37.12					
	B/W grid A and B	5.88	0.20	0.30															
	Top Main Bar																		
	Bottom Main Bar				1	16	5.88				2	5.83	11.65				11.65		
	Stirrups				1	16	5.88				3	5.83	17.48				17.48		
	B/W grid C and D	5.88	0.20	0.30	1	8	5.88	0.15			40	0.93	37.12	37.12					
	Top Main Bar										2								
	Bottom Main Bar				1	16	5.88				3	5.83	17.48				17.48		
	Stirrups				1	16	5.88				2	5.83	11.65				11.65		
	ALONG GRID 3				1	8	5.88	0.15			40	0.93	37.12	37.12					
	B/W grid C and D	5.88	0.20	0.30															
	Top Main Bar																		
	Bottom Main Bar				1	16	5.88				2	5.83	11.65				11.65		
	Stirrups				1	16	5.88				3	5.83	17.48				17.48		
	ALONG GRID 4				1	8	5.88	0.15			40	0.93	37.12	37.12					
	B/W grid A and B	5.88	0.20	0.30															
	Top Main Bar																		
	Bottom Main Bar				1	16	5.88				2	5.83	11.65				11.65		
	Stirrups				1	16	5.88				3	5.83	17.48				17.48		
	B/W grid B and C	3.60	0.20	0.30	1	8	5.88	0.15			40	0.93	37.12	37.12					
	Top Main Bar																		
	Bottom Main Bar				1	16	3.60				2	3.55	7.10				7.10		

Contractor PMC Assistant Engineer Assistant Exicutive Engineer Executive Engineer

Asst. Executive Engineer

Date.....

Scanned by TapScanner

2nd AND PART BILL

Detailed Measurements Of Reinforcement

Pre Measurements Recorded On:

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	Bottom Main Bar				1	16	3.60				3	3.55	10.65				10.65		
	Stirrups				1	8	3.60	0.15			25	0.93	23.20	23.20					
	B/W grid C and D	5.88	0.20	0.30															
	Top Main Bar				1	16	5.88				2	5.83	11.65				11.65		
	Bottom Main Bar				1	16	5.88				3	5.83	17.48				17.48		
	Stirrups				1	8	5.88	0.15			40	0.93	37.12	37.12					
														788.14			364.13		
														0.395	0.617	0.889	1.580	2.469	3.950
														311.37			575.41		
													Total kgs	886.77					
													Total in kg	886.77					
													Total tonne	0.89	TONNE				
II	**First Floor**																		
	ALONG GRID A																		
	B/W grid 1 and 2	5.70																	
	Top Main Bar				1	16	5.70				2	5.65	11.30				11.30		
	Bottom Main Bar				1	16	5.70				3	5.65	16.95				16.95		
	Stirrups				1	8	5.70	0.15			39	0.93	36.19	36.19					
	B/W grid 2 and 3	5.80																	
	Top Main Bar				1	16	5.80				2	5.75	11.50				11.50		
	Bottom Main Bar				1	16	5.80				3	5.75	17.25				17.25		
	Stirrups				1	8	5.80	0.15			40	0.93	37.12	37.12					
	B/W grid 3 and 4	3.95																	
	Top Main Bar				1	16	3.95				2	3.90	7.80				7.80		
	Bottom Main Bar				1	16	3.95				3	3.90	11.70				11.70		
	Stirrups				1	8	3.95	0.15			27	0.93	25.06	25.06					
	ALONG GRID B																		
	B/W grid 2 and 3	5.80																	
	Top Main Bar				1	16	5.80				2	5.75	11.50				11.50		
	Bottom Main Bar				1	16	5.80				3	5.75	17.25				17.25		
	Stirrups				1	8	5.80	0.15			40	0.93	37.12	37.12					
	ALONG GRID C																		
	B/W grid 2 and 3	5.80																	
	Top Main Bar				1	16	5.80				2	5.75	11.50				11.50		
	Bottom Main Bar				1	16	5.80				3	5.75	17.25				17.25		
	Stirrups				1	8	5.80	0.15			40	0.93	37.12	37.12					
	ALONG GRID D																		
	B/W grid 1 and 2	5.70																	
	Top Main Bar				1	16	5.70				2	5.65	11.30				11.30		
	Bottom Main Bar				1	16	5.70				3	5.65	16.95				16.95		

Contractor PMC

DSR INFRATECH Date.....

Assistant Engineer

Assistant Executive Engineer

Asst. Executive Engineer
Project Division

Executive Engineer

Scanned by TapScanner

2nd AND PART BILL

Detailed Measurements Of Reinforcement

Pre Measurements Recorded On:

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	Stirrups				1	8	5.70	0.15			39	0.93	36.19	36.19					
	B/W grid 2 and 3	5.80																	
	Top Main Bar				1	16	5.80				2	5.75	11.50				11.50		
	Bottom Main Bar				1	16	5.80				3	5.75	17.25				17.25		
	Stirrups				1	8	5.80	0.15			40	0.93	37.12	37.12					
	B/W grid 3 and 4	3.95																	
	Top Main Bar				1	16	3.95				2	3.90	7.80				7.80		
	Bottom Main Bar				1	16	3.95				3	3.90	11.70				11.70		
	Stirrups				1	8	3.95	0.15			27	0.93	25.06	25.06					
	ALONG GRID 1																		
	B/W grid A and B	5.88																	
	Top Main Bar				1	16	5.88				2	5.83	11.65				11.65		
	Bottom Main Bar				1	16	5.88				3	5.83	17.48				17.48		
	Stirrups				1	8	5.88	0.15			40	0.93	37.12	37.12					
	B/W grid B and C	3.60																	
	Top Main Bar				1	16	3.60				2	3.55	7.10				7.10		
	Bottom Main Bar				1	16	3.60				3	3.55	10.65				10.65		
	Stirrups				1	8	3.60	0.15			25	0.93	23.20	23.20					
	B/W grid C and D	5.88																	
	Top Main Bar				1	16	5.88				2	5.83	11.65				11.65		
	Bottom Main Bar				1	16	5.88				3	5.83	17.48				17.48		
	Stirrups				1	8	5.88	0.15			40	0.93	37.12	37.12					
	ALONG GRID 4																		
	B/W grid A and B	5.88																	
	Top Main Bar				1	16	5.88				2	5.83	11.65				11.65		
	Bottom Main Bar				1	16	5.88				3	5.83	17.48				17.48		
	Stirrups				1	8	5.88	0.15			40	0.93	37.12	37.12					
	B/W grid B and C	3.60																	
	Top Main Bar				1	16	3.60				2	3.55	7.10				7.10		
	Bottom Main Bar				1	16	3.60				3	3.55	10.65				10.65		
	Stirrups				1	8	3.60	0.15			25	0.93	23.20	23.20					
	B/W grid C and D	5.88																	
	Top Main Bar				1	16	5.88				2	5.83	11.65				11.65		
	Bottom Main Bar				1	16	5.88				3	5.83	17.48				17.48		
	Stirrups				1	8	5.88	0.15			40	0.93	37.12	37.12					
														485.86			362.50		
														0.395	0.617	0.889	1.580	2.469	3.858
														184.04			572.94		
													Total kgs	756.88					
													Total in kg	756.88					
													Total tonne	0.76	TONNE				

Contractor PMC DSR INFRA Date Assistant Engineer Assistant Executive Engineer Executive Engineer

Asst. Executive Engineer
Project Division

Scanned by TapScanner

2nd AMD PART BILL

Detailed Measurements Of Reinforcement

Pre Measurements Recorded On:

Sl. No	Member details	size in meter			No of element s	Dia of bar	Main Bars calc		Distribution bars calc		No of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Size cong	L	Size cong									
III	Second Floor																		
	ALONG GRID A																		
	B/W grid 1 and 2	5.70																	
	Top Main Bar				1	16	5.70				2	0.80	11.30				11.30		
	Bottom Main Bar				1	16	5.70				3	0.85	16.95				16.95		
	Stirrups				1	8	5.70	0.15			38	0.63	38.19	38.19					
	B/W grid 2 and 3	5.80																	
	Top Main Bar				1	16	5.80				2	0.75	11.80				11.80		
	Bottom Main Bar				1	16	5.80				3	0.75	17.25				17.25		
	Stirrups				1	8	5.80	0.15			40	0.63	37.12	37.12					
	B/W grid 3 and 4	3.95																	
	Top Main Bar				1	16	3.95				2	0.80	7.90				7.90		
	Bottom Main Bar				1	16	3.95				3	0.80	11.70				11.70		
	Stirrups				1	8	3.95	0.15			27	0.63	25.06	25.06					
	ALONG GRID B																		
	B/W grid 2 and 3	5.80																	
	Top Main Bar				1	16	5.80				2	0.75	11.80				11.80		
	Bottom Main Bar				1	16	5.80				3	0.75	17.25				17.25		
	Stirrups				1	8	5.80	0.15			40	0.63	37.12	37.12					
	ALONG GRID C																		
	B/W grid 2 and 3	5.80																	
	Top Main Bar				1	16	5.80				2	0.75	11.80				11.80		
	Bottom Main Bar				1	16	5.80				3	0.75	17.25				17.25		
	Stirrups				1	8	5.80	0.15			40	0.63	37.12	37.12					
	ALONG GRID D																		
	B/W grid 1 and 2	5.70																	
	Top Main Bar				1	16	5.70				2	0.80	11.30				11.30		
	Bottom Main Bar				1	16	5.70				3	0.85	16.95				16.95		
	Stirrups				1	8	5.70	0.15			38	0.63	38.19	38.19					
	B/W grid 2 and 3	5.80																	
	Top Main Bar				1	16	5.80				2	0.75	11.80				11.80		
	Bottom Main Bar				1	16	5.80				3	0.75	17.25				17.25		
	Stirrups				1	8	5.80	0.15			40	0.63	37.12	37.12					
	B/W grid 3 and 4	3.95																	
	Top Main Bar				1	16	3.95				2	0.80	7.90				7.90		
	Bottom Main Bar				1	16	3.95				3	0.80	11.70				11.70		
	Stirrups				1	8	3.95	0.15			27	0.63	25.06	25.06					
	ALONG GRID 1																		
	B/W grid A and B	5.88																	
	Top Main Bar				1	16	5.88				2	0.80	11.90				11.90		

Contractor

Assistant Engineer

DBR INFRATECH

Date

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